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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913 7590 12/24/2008

EXAMINER

ROJAS, DANIEL E

ART UNIT PAPER NUMBER

2816

DATE MAILED: 12/24/2008

NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/588,579 02/01/2008 Mihai Adrian Tiberiu Sanduleanu NL04 0105 US1 8721

TITLE OF INVENTION: LATCH CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new of maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ				have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
1109 MCKAY I SAN JOSE, CA							(Depositor's name)
5111, 1052, 611	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	2	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/588,579	02/01/2008	Mi	Mihai Adrian Tiberiu Sanduleanu		N	NL04 0105 US1	8721
TITLE OF INVENTION	: LATCH CIRCUIT						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/24/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
ROJAS, I	DANIEL E	2816	327-218000	•			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	(1) the names of up to or agents OR, alternatic (2) the name of a sing registered attorney or 2 registered patent attornes ilsted, no name will be THE PATENT (print or ty data will appear on the part of the par	vely, le firm (having as agent) and the nan orneys or agents. If printed. pe) patent. If an assignassignment.	a memb nes of u no nam	p to ge is 3dentified below, the do	cument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (N		permitted)	b. Payment of Fee(s): (Ple: A check is enclosed. Payment by credit ca	ase first reapply a	ny prev 8 is atta	viously paid issue fee s uched.	
5. Change in Entity Sta	tus (from status indicate	d above)	overpayment, to Depo	osit Account Numb	er	(enclose an	extra copy of this form).
	ns SMALL ENTITY state		b. Applicant is no lor				R 1.27(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.	ше аррпсан, а гед	istered .	attorney of agent, of the	assignee of other party in
Authorized Signature				Date			
Typed or printed name				-			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any c er, U.S. Patent and O THIS ADDRES	the pub minutes omment Traden S. SEN	lic which is to file (and s to complete, including is on the amount of tim nark Office, U.S. Depa D TO: Commissioner for the commission	by the USPTO to process) g gathering, preparing, and the you require to complete the truent of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,579	02/01/2008	Mihai Adrian Tiberiu Sanduleanu	NL04 0105 US1	8721
65913 75	90 12/24/2008		EXAM	INER
NXP, B.V.		ROJAS, DANIEL E		
NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131			ART UNIT	PAPER NUMBER
			2816	
			DATE MAILED: 12/24/2008	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/588,579	SANDULEANU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DANIEL ROJAS	2816	
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to response filed 10/1/2	(OR REMAINS) CLOSED in or other appropriate comming IGHTS. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due course	
2. X The allowed claim(s) is/are <u>2-17</u> .			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the certified copies of the priority documents have 2. Certified copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Note 1. Substitutional Bureau (PCT Rule 17.2(a)). * Certified copies not received: MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminated in the subminated part of the priority of the Notice of Draftspers 1. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1. Paper No./Mail Date Paper No./Mail Date Subminated Paper No./	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. Initted. Note the attached EX es reason(s) why the oath const be submitted. Inited son's Patent Drawing Reviews Amendment / Comment of the header according to 37 Center of the submitted of the header according to 37 Center of the header according to	on No d in this national stage application from the areply complying with the requirement of the complying with the requirement of the complex and th	ents E OF of
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 7. ☐ Examiner's	oformal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance)

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose an apparatus comprising elements being configured as recited in the claims. Specifically, none of the prior art teaches or fairly suggests the following features in combination with the other limitations of the claims:

- a. For claim 1, Sinh (US Patent No. 5,220,212) teaches a latch circuit (Figure 1) receiving an inverting input signal (as shown), non-inverting clock signal (101), an inverting clock signal (shown in Figure 2), and a common mode control signal; and producing a non-inverting output signal and an inverting output signal but fails to teach the first, second, third, fourth, fifth, and sixth transistors connected as claimed.
- b. For claim 10, Leifso et al (US Patent Application Publication No. 2003/0193355) teaches a latch circuit for differential input signals comprising: a first latch portion (130) and a second latch portion (132), each latch portion comprising: a differential input with an inverting input (Dn) and a non-inverting input (Dp); a differential output with an inverting output (Qn) and a non-inverting output (Qp); a control input which determines a threshold for the input signals such that when the input signal is larger than the threshold, the output latch is in a HIGH logic state and in a LOW state when the signal is smaller than the threshold; one of the outputs of the first latch portion (Qn) is coupled to the input of the second latch portion having opposite polarity (Dp); but fails to teach that one of the outputs of the second latch portion is coupled to one of the inputs of the

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first latch portion having opposite polarity and a differential input signal to the latch circuit is coupled to one of the inputs of the first latch portion and to the input of the second latch portion having an opposite polarity.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL ROJAS whose telephone number is (571)270-5070. The examiner can normally be reached on Monday-Friday 7:30-8 EST, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on 571-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth B Wells/ Primary Examiner, Art Unit 2816

/D. R./ Examiner, Art Unit 2816